Notice of Allowability	Application No.	Applicant(s)	
	10/749,469	HEWLETT ET AL.	
	Examiner	Art Unit	
	Jack Dinh	2873	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is s	this application. If not included inication will be mailed in due course.	
1. $\boxtimes$ This communication is responsive to <u>05/25/04</u> .			
2. The allowed claim(s) is/are <u>1-13</u> .			
3. The drawings filed on are accepted by the Examine	r.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority una)</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application	n No	ı the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requiremen	its
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			)F
6.  CORRECTED DRAWINGS ( as "replacement sheets") muss (a)  including changes required by the Notice of Draftspers 1)  hereto or 2)  to Paper No./Mail Date (b)  including changes required by the attached Examiner's Paper No./Mail Date 1204. Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet of the	on's Patent Drawing Review  S Amendment / Comment or  84(c)) should be written on the header according to 37 CF	in the Office action of ne drawings in the front (not the back) of R 1.121(d).	,
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>			
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1203  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview So Paper No./ 8), 7. Examiner's	formal Patent Application (PTO-152)  Jummary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allowance	

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## **DETAILED ACTION**

## **Drawings**

1. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the figures are labeled by hand. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

## REASONS FOR ALLOWANCE

2. Claims 1-13 are allowed. The following is a statement of the examiner's reasons for allowance. The present invention relates generally to micro-mechanical devices, and more particularly to a device and method for damping the movable elements of such devices.

Regarding claims 1 and 8, the prior art alone or in combination fails to disclose or suggest the method of operating a digital micromirror device comprising the steps of applying a reset voltage pulse to cause the micromirror to launch from a landing plate, applying an offset voltage immediately after the reset voltage pulse, for a damping delay period wherein the micromirror launches and is moving away from the landing plate before an expiration of the damping delay period, applying a damping pulse to the micromirror immediately after the offset voltage, wherein the damping pulse voltage is equal to a bias voltage for the micromirror, and reapplying the offset voltage to the micromirror, whereby the damping pulse reduces oscillation of the

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micromirror about a neutral position. The claimed invention is therefore considered to be in

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condition for allowance as being novel and non-obvious over prior art.

3. The prior art taken either singly or in combination fails to anticipate or fairly suggest the

limitations of the independent claims, in such a manner that a rejection under 35 USC 102 or 103

would be improper. Any comments considered necessary by applicant must be submitted no

later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement

of Reasons for Allowance."

Examiner's Comments

4. New corrected drawings are required as described above. The corrected drawings are

required in reply to the Office action to avoid abandonment of the application. The requirement

for corrected drawings will not be held in abeyance.

Other Information/Remarks

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Kaeriyama (U.S. Patent Publication 2004/0246554) and Chu et al. (U.S. Patent

Publication 2004/0233507) disclose similar method of operating digital micromirror device.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Dinh whose telephone number is 571-272-2327. The examiner can normally be reached on M-F (9:30 AM - 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jack Dinh

Scott J. Sugarman Primary Examiner